

TASK ORDER #3

PAWSS VTS SYSTEM INSTALLATION AND TEST

in the

PORT of NEW ORLEANS, LA

PRELIMINARY

25 August 1997

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1.0 SCOPE OF TASK ORDER

This Task Order covers the installation of the Ports and Waterways Safety System Project (PAWSS) Vessel Traffic Service (VTS) system in New Orleans, LA (NOLA) following the build-out of the Vessel Traffic Center (VTC). The suite of equipment at the VTC will include multiple Watchstander workstations. This Task Order also covers the upgrade of the radar at the Governor Nicholls Light Facility. The System Integration Contractor (SIC) shall upgrade the radar and connect it to the VTC using Government furnished communication links. The system shall be capable of expansion in the future by adding additional sensors and DSC/AIS communications sites along the river and installing additional workstations in the VTC.

The SIC shall complete Development Test and Evaluation (DT&E) after the integration of their PAWSS VTS system for system acceptance. This Task Order also covers the SIC support to the Coast Guard during Operational Test and Evaluation (OT&E). The installed VTS system shall have all the essential elements necessary to test the capabilities of the system to determine acceptability for use in other ports. The testing will be a joint effort of the Program Sponsor's organization and local port representatives.

2.0 APPLICABLE DOCUMENTS AND CLINS

2.1 APPLICABLE DOCUMENTS

TBD	Statement Of Work for the PAWSS Project System Integration Contractor	25 August 1997
TBD	System Specification for the PAWSS VTS System	2 June 1997
TBD	ICD for NOLA Traffic Lights	
1721798	System Interface Design Document for the Surface Search Radar Program	1 July 1997
TBD	Interface Requirements Spec- ification for the Surface Search Radar	TBD
TBD	Radar Data Service Communication User Manual for the Surface Search Radar Program	1 July 1997
TBD	U.S. Coast Guard Civil Engineering CADD Standards (AUTOCAD Release 12)and CE-CADD, Version 5.2.2	TBD

2.2 APPLICABLE CLINS

CLIN 005: System Implementation of the Lower Mississippi
VTS System in NOLA (includes the cost of the
replacement radar at Governor Nicholls Light)

CLIN 006: Facilities Modifications at Governor Nicholls
Light

CLIN 007: Support for the VTS System in NOLA

3.0 TECHNICAL DESCRIPTION OF WORK

3.1 PERIOD OF PERFORMANCE

<u>CLIN</u>	<u>Period of Performance</u>	<u>Duration of Performance</u>
005 & 006	T.O. award through port acceptance	6 months
007	Port acceptance through OT&E	2 months

3.2 PLACE OF PERFORMANCE

The place of performance will be at the SIC's Facility and the VTC facility in NOLA, and the Governor Nicholls Light Facility.

3.3 GOVERNMENT FURNISHED ITEMS

3.3.1 Government Furnished Property (GFP)

When Req'd

3.3.2.1 Radios

The existing radio and DSC/AIS equipment provided under Task Order #1 shall be used in this task.

At Award

3.3.2.3 Communications Links

The Government will secure the communications links requested by the SIC in the Telecommunications Services Requests (TSR) as defined in the SOW, paragraph 3.2.5.6.1.3.3.

4 months ARO

3.3.2.4 Sensors

The radar provided under Task Order #1 shall be used in this task.

At award

3.3.2.5 Remote Site

The SIC shall utilize the Coast Guard site at Governor Nicholls Light for installing the replacement radar.

3 months ARO

When Req'd

3.3.2.6 VTC Site

The Government will provide the VTC facility which was built-out to the SIC's specification (Task Order #2).

At award

3.3.3 Government Furnished Equipment and Support

The Government may furnish a Surface Search Radar (SSR) for the replacement radar at the Governor Nicholls Light Facility, if the Government selects that option.

3.4 THE VTSA FOR THE PORT OF NEW ORLEANS

The Vessel Traffic Service Area (VTSA) for the Port of New Orleans includes the navigable waters of the Mississippi River from the river outlet to Baton Rouge, LA., between the river levees. It also includes the riverside entrance to the locks.

3.4.1 Critical Surveillance Area

The entire VTSA identified in this Task Order is considered critical and DSC/AIS coverage shall be provided for the entire area. In addition, two radars shall supplement the DSC/AIS coverage; one radar will be located at the Gretna Light Facility and one at the Governor Nicholls Light Facility.

3.5 WORK TASKS

The SIC shall perform this Task Order in accordance with the SOW paragraphs 3.2 and 4.2 (and all their subparagraphs), and the PAWSS VTS System Specification.

The applicable SOW paragraphs and Contract Data Requirements List (CDRL) products are provided for each subtask. Subparagraphs in the SOW are included if not specifically excluded or modified

3.5.1 Subtask 1--Project Management CLIN 005

The SIC shall conduct the first Project Management Review 30 days after award of this task order. Thereafter, the reviews shall be scheduled to occur at the time of significant events: e.g., completion of the VTS System installation, System Performance Test, and Operational Test and Evaluation, or others as appropriate.

For Subtask 1, the SIC shall meet all the requirements of the following paragraphs of the SOW.

<u>Description</u>	<u>SOW Paragraph</u>
Project Management	3.2.1
Configuration Management	3.2.2
Risk Management Program	3.2.3
Reliability, Maintainability, and Availability	3.2.4

3.5.2 Subtask 2--Specific System Design CLIN 005

The only unique functions (see SOW paragraph 3.2.5.2.1) to the VTS System Specification specific to NOLA are the interfaces to the Marine Traffic lights, identified in paragraph 3.5.2.1 and the interface to the local emergency radio system identified in paragraph 3.5.2.2. The SIC shall document these

port specific additions in the Port Specific System Description, and in the Interface Control Document.

The SIC shall conduct a NOLA-specific SDR, 60 days after Task Order award, and shall provide a first submittal of the Port Specific System Description, including "as-built" drawings of the VTC and the remote sites prior to starting DT&E. If the SIC uses CADD to prepare the VTC and remote site drawings, the SIC shall adhere to Coast Guard CE CADD standards for layering and symbology.

3.5.2.1 Interface to Marine Traffic Lights

The New Orleans PAWSS VTS System shall interface with the marine traffic lights located at the Gretna Light facility and the Governor Nicholls Light facility, and shall provide VTS operators at the VTC with the capability of controlling these lights. The interface to these lights shall be in accordance with the Government provided ICD.

3.5.2.2 Interface to Emergency Communications System

The New Orleans PAWSS VTS System shall interface with the emergency communications system located at the Governor Nicholls Light facility for the purpose of interfacing with guard stations up and down the river, and shall provide VTS operators at the VTC with the capability of operating this voice communications system. The interface to this emergency communications system shall be in accordance with the Government provided ICD.

3.5.2.3 Subtask 2 Requirements

For Subtask 2, the SIC shall meet all the requirements of the following paragraphs of the SOW.

<u>Description</u>	<u>SOW Paragraph</u>
System Design	3.2.5.2
Design Reviews	3.2.5.3
Plan Updates	3.2.5.4
Detailed System Design	3.2.5.5

3.5.3 Subtask 3--Systems Installation CLIN 005

The SIC shall install the PAWSS VTS System in accordance with the design prepared in Subtasks 2 and 4 of this Task Order.

The SIC shall use the equipment installed in Task Order #1 in completing the PAWSS VTS System installation in this Task Order following the transition plan prepared in Task Order #1. At no time shall the DSC/AIS and radar information available at the Gretna Light Facility be unavailable.

For Subtask 3, the SIC shall meet all the requirements of the following paragraphs of the SOW:

<u>Description</u>	<u>SOW Paragraph</u>
System Installation	3.2.5.7 except 3.2.5.7.3

3.5.4 Subtask 4--Governor Nicholls Site Modifications CLIN 006

The SIC shall use the Coast Guard site at Governor Nicholls Light for installation of a radar that meets the requirements of the PAWSS VTS specifications. The SIC shall improve the site including tower and/or shelter as necessary. The SIC shall prepare all documentation and permit applications. The SIC shall connect the new radar to the VTC using Government furnished communication links. The detailed information of the Governor Nicholls site is given in Appendix A.

For Subtask 4, the SIC shall meet all the requirements of the following paragraphs of the SOW.

<u>Description</u>	<u>SOW Paragraph</u>
Remote Towers and Shelters	3.2.5.6.2.3
Government Sensors	3.2.5.6.1.2

3.5.5 Subtask 5--Development Test and Evaluation CLIN 005

Prior to commencing DT&E, the SIC shall load any adaptation data into the system prior to testing the system. This data shall include, but not be limited to the electronic chart data, data on vessels that frequent the port, vessels that have AIS, and vessel standard routes, etc.

For Subtask 5, the SIC shall meet all the requirements of the following paragraphs of the SOW.

<u>Description</u>	<u>SOW Paragraph</u>
Verification of PAWSS Project System Performance	4.2.4
Calibration and Maintenance of Measurement and Test Equipment	4.3

3.5.6 Subtask 6--OT&E Support CLIN 005

For Subtask 6, the SIC shall meet all the requirements of the following paragraphs of the SOW.

<u>Description</u>	<u>SOW Paragraph</u>
Government Oversight of System Verification Activities	4.2.4.3
Calibration and Maintenance of Measurement and Test Equipment	4.3

3.5.7 Subtask 7--Training/Maintenance Support CLIN 007

The training shall be performed at the Gretna Light Facility during the transition period and OJT on equipment in the VTC after installation.

The SIC shall provide maintenance support during transition period and during the OT&E. Maintenance support after OT&E shall be accomplished under a separate Task Order.

For Subtask 7, the SIC shall meet all the requirements of the following paragraphs of the SOW.

<u>Description</u>	<u>SOW Paragraph</u>
Training	3.2.5.6.3.2
Training Courses	3.2.5.10
Maintenance	3.2.5.6.3.3
Calibration and Maintenance of Measurement and Test Equipment	4.3

4.0 QUALITY ASSURANCE REQUIREMENTS

4.1 SUBTASK 8-QUALITY PROGRAMS CLIN 005

4.1.1 Subtask 8 Requirements

For Subtask 8, the SIC shall meet all the requirements of the following paragraphs of the SOW:

<u>Description</u>	<u>SOW Paragraph</u>
Quality Programs	4.1.1

APPENDIX A - GOVERNOR NICHOLLS SITE DESCRIPTION

The following information is needed for the Governor Nicholls site:

- Location
- Level of site development
- Existing equipment and structures
- Environmental status
- Government emissions analysis (if required)
- Utilities available
- Access requirements
- Any site restrictions

APPENDIX B: ACRONYMS

AIS	Automatic Identification System
CDRL	Contract Data Requirements List
CLIN	Contract Line Item Number
DAC	Days After Contract
DSC	Digital Select Calling
DT&E	Developmental Test and Evaluation
GFE	Government Furnished Equipment
GFI	Government Furnished Information
GFP	Government Furnished Property
ICD	Interface Control Document
LA	Louisiana
NOLA	New Orleans, Louisiana
PAWSS	Ports and Waterways Safety System
PMR	Project Management Review
SIC	System Integration Contractor
SOW	Statement Of Work
SSR	Surface Search Radar
TBD	To Be Determined
T.O.	Task Order
USCG	U.S. Coast Guard
VTC	Vessel Traffic Center
VTs	Vessel Traffic Service
VTSA	Vessel Traffic Service Area